ULTRASONIC SURGICAL OPERATION DEVICE

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Applicant:

OLYMPUS OPTICAL CO LTD

Classification:

- international:

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- european:

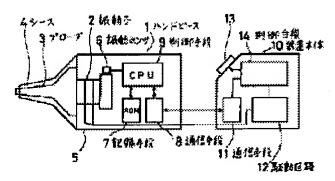
Application number:

JP19910211735 19910823

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Abstract of JP5049647

PURPOSE:To improve the safety of the ultrasonic surgical operation device by obtaining information, as well, related to necessity of a life cycle and maintenance of each single hand piece, and monitoring and judging a state of each hand piece. CONSTITUTION: A hand piece 1 is provided with a vibration sensor 6 for detecting a driving use state of its vibrator 2, a means 7 for recording its monitor information, a communication means 8 for transmitting storage information of this recording means 7 to a device main body 10, and a means 9 for controlling them. In such a state, the result monitored the state of the vibrator 2 of the hand piece 1, for example, a total use time, the vibration conversion efficiency for a voltage current input, and a calorific value in the course of use, etc., by a monitoring means is recorded in the recording means 7. When its handle piece 1 is connected to the device main body 10, transmission of data is executed to the control means 9 of its device main body 10, and state of its hand piece 1 is judged.



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